

Developing of Recipe Books Based On Local Fruits

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Abstract: This study aims to develop a recipe book for desserts based on local fruits as a teaching aid for the field of Catering. With this recipe book, lecturers can use it as a teaching aid and to be used as a reference and guidance for Catering students. In addition, this recipe book can be used to facilitate the teaching and learning process and students can learn independently. The objective of this study to develop a local fruit-based dessert's recipe book and identify the suitability of the recipe books among the teaching staff. In this study, the researcher used the ADDIE model as a guide in developing this recipe book. The research method used is a quantitative method using a questionnaire instrument to obtain research data. Respondents in this study are ten experts who are experienced in teaching in this field. Data and feedback were obtained from questionnaires and expert validation. Therefore, the developed recipe book has received expert approval in terms of recipe book development, content suitability and recipe book design elements. In conclusion, the development of recipe books as teaching aids is suitable for development based on the feedback of experts. It is hoped that this book could enrich the teaching and learning process.

Keywords: Recipe Book, Dessert, Local Fruits, ADDIE Model

1. Introduction

The technical education stream is designed to educate students who are interested in technical fields in upper secondary school to continue their study in technical fields at a higher level. While the vocational education stream strives to develop pupils at the upper secondary level who are interested in vocational fields. To fulfill students with practical knowledge and skills, teaching professionals must strive to contribute the highest possible practical standards (Che Kob, 2018). Accordingly, lecturers must play an important role in realizing this by carrying out their responsibilities by educating students in the best way to ensure the effectiveness of teaching and learning process. However, a challenge in teaching and learning strategies are concerned in the availability of teaching materials, intended learning

outcome and assessment. The transformation of design teaching strategies is planning the act of teaching, teaching as deliberate reflection. (Shulman, 1987, Do-Yong & Chanphorn, 2017).

Elyani (2015), stated the use of teaching aids also known as ABBM in their teaching and learning process is important especially in technical secondary schools. In addition, teaching aids help the lecturer to provide information in a clear, accurate and concise way so that the students can understand and master the topics studied. According to Jasmi (2011), these teaching aids make teachers as facilitators to students and the effectiveness of student -centered learning can be improved and used. For the most part, the courses or books generated serve as the primary reference source for teaching and learning activities, whether in the classroom or online. There are also books that are self-learning in nature, in which students can acquire particular knowledge and abilities by following the book's instructions without or with the assistance of a lecturer. The book is typically used in remote learning mode (Hashim, et al. 2003)

The recipe book for teaching and learning materials is a good way for teaching and learning purposes if the product is of high quality and meets the needs of students and it is also the main reference source for courses developed based on the syllabus set by the academic management (Sayadi, 2012). The book is defined reference materials which covers the entire topic and has been systematically arranged so that it can be easily understood by students related to the topic to be learnt. According to Yasin (2008), various teaching and learning methods are used today until the use of technological and computerized resources have been used in the teaching and learning process compared to the past which only used chalk and boards. Recipe books as learning reference material is also a content -based learning strategy that has been set to be used in learning and teaching sessions (Yunita, 2010). While according to Anwar (2010), a recipe book as a learning reference is a material that has been arranged according to the content that has been set, systematic and interesting that includes the content of materials, methods and evaluation that has been set by the lecturer. Furthermore, recipe books can also help students in increasing the level of understanding of students to understand more clearly and master certain skills and knowledge.

2. Methodology

Research design used was descriptive and quantitative methods which is the researcher build a questionnaire instrument. The questionnaire is divided into four sections which is part A demographics (gender and length of service), part B is recipe book development, part C is suitability of recipe book content and part D is recipe book design elements involving 5 Likert scales that is, (1) uncertain, (2) very uncertain, (3) disagree, (4) agree and (5) strongly agree, that cover analysis of recipe book development, content of book recipe and recipe book design elements. Study design is a research method that has a systematic in finding new and useful information in a field (Idrus ,2012). This study is a survey study that uses quantitative methods through questionnaires. Quantitative methods are used to obtain data more easily and in detail against the objectives of the study required. Quantitative methods allow data to be collected further in the analysis to produce the desired information (Gall, and Borg (2007).

Dessert Recipe Book Based on Local Fruits produced is for the use of lecturers and also catering students. Researcher using the ADDIE model as a guide in developing a recipe book. The ADDIE model is the main instructional design used and become the source of the emergence of other models (Carr-Chellman, 2011). This design models for teaching has five phases, namely, (i) Analysis, (ii) Design Form, (iii) Development (iv) Implementation and (v) Evaluation (Larson & Lockee, 2014; McKenney & Reeves, 2012; Morrison, Ross, & Kemp, 2007).

3. Results and Discussion

Figure 1 shows the design of "Recipe Books Based On Local Fruits". Based on the results of the lesson analysis, it can attract students' interest and attention to learning process. Based on the result, the

expert show high interest of this module with 96% of rating. Based on the percentage value given by the respondent, it can be concluded that the respondent agrees on the development of the recipe book of local fruit dessert. Suitability of Recipe Book Contents results obtained also show the high percentage with the rate is 100%. The majority of experts say that the content is appropriate to the needs and understanding of the students. Next, the use of language is also appropriate and easy to understand, the description of each topic found in this recipe book is also clear. According to Ismail (2011), the production of recipe books as learning reference material can attract students' interest and attention to the learning process. Based on the average value, it can be concluded that the experts agree that the contents of the local fruit dessert recipe book is suitable and appropriate. Figure 1 shows the design cover of the book.

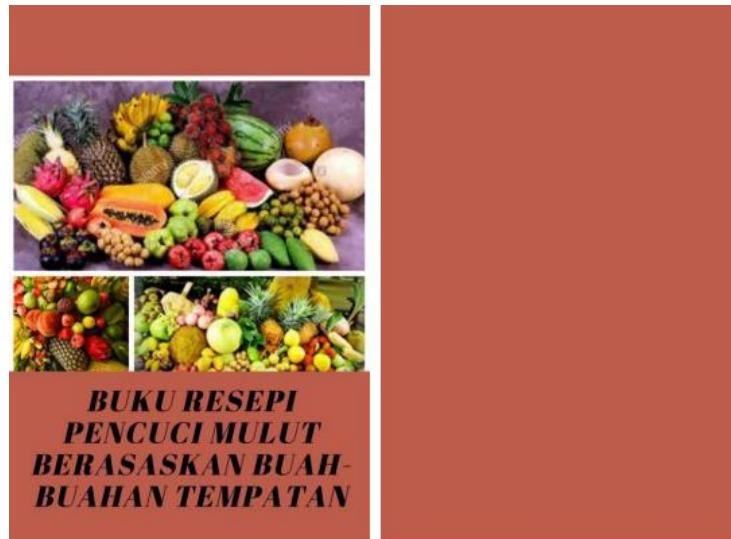


Figure 1: Cover and back page of modul

Table 1 shows an analysis of the overall aspects of the recipe book such as the development of the recipe book, the suitability of the contents of the recipe book and the design elements of the recipe book. It should be done to formulate the suitability of the Local Fruit-Based Dessert Recipe Book that has been developed. Table 2 shows the overall average analysis of recipe book development, recipe book content suitability and recipe book elements. A total of 96% of the experts agreed and gave feedback which is positive from the aspect of recipe book development. Next, for feedback related to the appropriateness of the contents of the recipe book the majority of experts 100% agreed and provided positive feedback and some constructive comments. In addition, 99% of experts agree with the design elements of local fruit-based desserts. In conclusion, the development of the recipe book, the suitability of the contents of the recipe book and the design elements of this local fruit-based dessert recipe book are suitable for use as reference material.

Table 2: Overall average analysis of recipe book development, content of recipe book and recipe book design elements

Respondents Construction	Experts	
	TS	S
Recipe Book Development	4%	96%
Content of Recipe Book	0%	100%
Recipe Book design elements	1%	99%
Average	2%	98%

As a result of the analysis on the design part of the recipe book, the majority of experts have agreed with a recipe book design built like a book cover design which is interesting, the presentation layout of the recipe book is well organized, format which is used in accordance with the presentation of recipe books and so on. Yusuf (2008), has explained that the main aspect that needs to be inside the construction of a recipe book is the use of text. The researcher used the approach writing text using Arial Rounded Mt Bold type size 12 so it's easy read. The systematic arrangement of content can help students to making menu recipes as learning aids more easily and fast, in line with the opinion of Noah & Ahmad (2005) that achievement a student can be improved if the teaching aids are built according to the needs of the students. Some experts give feedback that the diagram needs to be increased to attract interest students to learn. Awang (2016), the development of a recipe book can provide facilities for students to learn and improve the competence of students. Experts also suggest that researchers need to make a list of more recipes in the topic of seasonal fruits found in the recipe book so students know more recipes about local fruits contained in the recipe book. In addition, pictures or Graphical illustrations should be added to help users see the picture clearly.

4. Conclusion

In conclusion, the analysis showed that all experts agreed with the production of this local fruit-based dessert recipe book and gave positive feedback on the recipe book development, suitability of recipe book content and recipe book design elements based on 20 items evaluated. The researcher developed this local fruit-based dessert recipe book aimed at helping lecturers and students in the field of catering in learning. The development of this recipe book is also an initiative in diversifying reference materials for the use of catering students. Among the important elements that need to be taken into account in a recipe book is the content, format, clarity and design so that the recipe book developed is effective and can be used by students.

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